SOV/122-59-4-2/28 Investigation of the Working Process and Computation of the Speed Characteristics of the D50 Engine

The connections between units consist of air or gas flow as between the engine and the supercharger or turbine, respectively, or alternatively, of mechanical connections as between the turbine and the supercharger. The system of equations governing the relation between the units has two groups, namely, the performance equations of each unit separately and the equations of the connections between them. The first group is stated in Eqs 1 - 7 and the second group in eqs 8 - 16. To these are added relations between certain performance magnitudes which are derived experimentally or analytically. At full throttle, the number of equations corresponds to the number of unknown and, at each rpm, a unique condition of simultaneous operation exists. For a system with constant exhaust gas pressure, the supercharger pressure is plotted as a function of various quantities both in the engine and the turbo-compressor system. The points of intersection of the superimposed graphs corresponding Card 4/6 to the same temperature at the same speed define the conditions of simultaneous operation of the two units.

Investigation of the Working Process and Computation of the Speed Characteristics of the D50 Engine

From this, a relation for the supercharge pressure as a function of speed is obtained. Using the experimental or the analytical relation for the mean effective pressure as a function of supercharge pressure and speed, the full throttle power curve is obtained. When the exhaust gas flow is pulsating, further equations are necessary by which the pressure fluctuations, mean temperature and mean gas flow are obtained (Eqs 17 - 20). No new unknowns are introduced. Further equations (21 and 22) replace the appropriate equations describing the connections between the units. The complication of the computing procedure has made it necessary to introduce equivalent pressures by which the pulsating flow is transformed into an equivalent steady flow. These equivalent pressures are tabulated in Table 2. comparison was made between experimentally obtained and computed equivalent pressures which has shown good The sequence of steps in computing the agreement. power curve is stated in detail and illustrated with numerical examples. The analytical results are shown

Card 5/6

Investigation of the Working Process and Computation of the Speed Characteristics of the D50 Engine

to be in good agreement with measurements. For example, the supercharge air pressure obtained by computation is about 2% below the measured value at 580 rpm. The difference in the mean effective pressure does not exceed 1.5%.

There are 10 figures, 3 tables and 4 Soviet references.

Card 6/6

EPSHTEYN, A. S., CAND TECH SCI, "INVESTIGATION AND CALCULATION OF VARIABLE REGIMES OF TRANSPORTATION AND SUPERCHARGED GAS-TURBINE ENGINES." MOSCOW, 1960. (MIN OF HIGHER AND SEC SPEC ED RSFSR, MOSCOW ORDER OF LENIN AND ORDER OF LABOR RED BANNER HIGHER TECHNICAL SCHOOL IN N. E. BAUMAN). (KL, 3-61, 223).

300

STRUNGE, Boris Nikolayevich; MUL'MAN, Boris Yefimovich; EPSHTEIN, Abram Semenovich; GUREVICH, A.N., kand. tekhn. nauk, retsenzent; SAIR-NOVA, V.L., red. izd-va; EL'KIND, V.D., tekhn. red.

[Design of locomotive and marine engines abroad] Konstruktsii zarubezhnykh teplovoznykh i sudovykh dvigatelei. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 299 p.

(MIRA 14:11)

(Diesel locomotives) (Marine diesel engines)

S/262/62/000/010/022/024 1007/1207

AUTHOR:

Epshteyn, A. S.

TITLE:

Method of determining the conditions for joint operation of the [Abstractor's note: diesel]

engine and gas-turbine supercharging unit

PERIODICAL:

Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustanovki, no. 10. 1962, 75, abstract

42.10.458. In collection "Gazoturbin. nadduv dvigateley vnutr. sgoraniya". Moscow,

Mashgiz, 1961, 88-100

TEXT: Description of a graphical method is given permitting the largest use of data from test-stand trials. At the same time the method suggested simplifies calculations and shortens their duration. Comparison of calculation data with test results of -4.050 (D50) and 9.4100 (9D 100) diesel engines, showed good agreement. There are 4 figures.

[Abstracter's note: Complete translation.]

Card 1/1

EPSHTEYN, A.S., inzh.

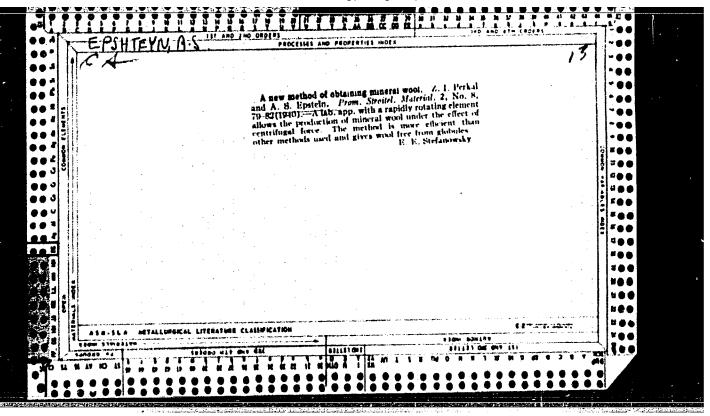
Experimental determination of the consumption coefficients of intake and exhaust valves of the D50 diesel engine.

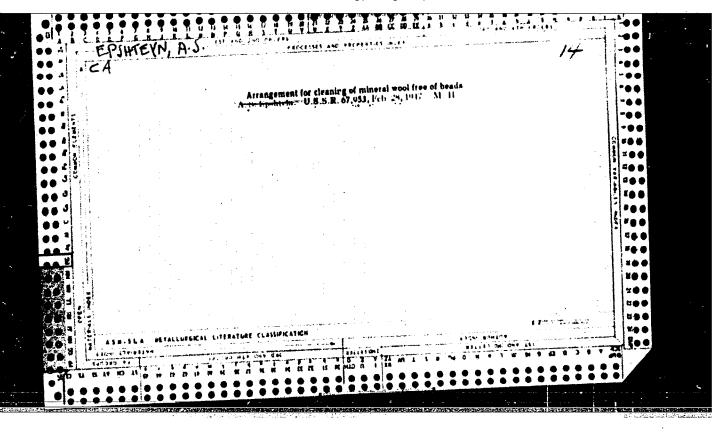
Energomashinostroenie 7 no.6:27-28 Je '61. (MIRA 14:7) (Diesel engines—Valves)

ADAMESKU, A.A.; SABEL'NIKOVA, N.A.; EPSHTEYN, A.S.

New economic regions of the U.S.S.R. Geog. v shkole 26 no.3: 7-13 My-Je 163. (MIRA 16:6)

(Economic zoning)



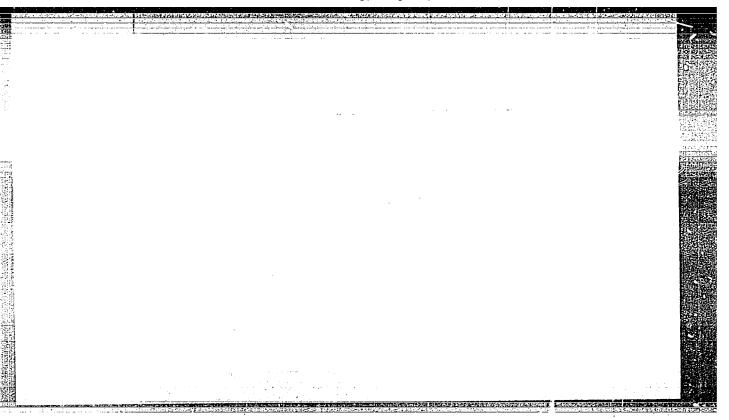


EPSHTEYN, A. S.

Building Materials - Testing

Determining the coefficient of heat conductivity of building materials. Stroi. prom. 30 No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.



"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041212

Chemical Abst.

Vol. 48 No. 9

May 10, 1954

Fuels and Carbonisation Products

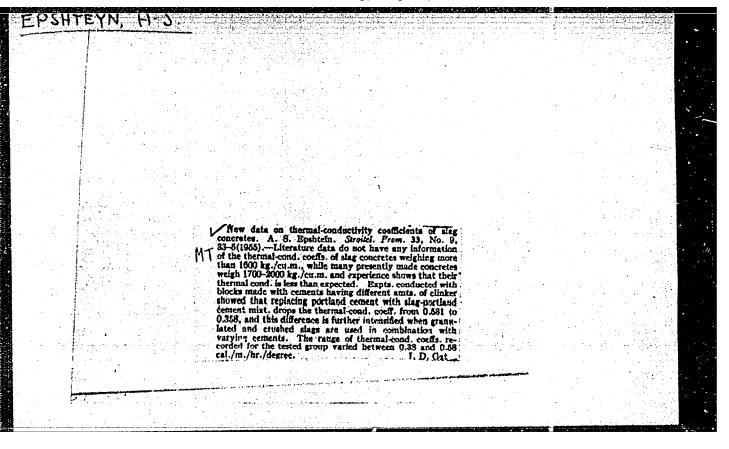
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Thermal conductifity of the fued as are inent in tech. Hirristry, however, they had no important reaction application for calcs, the heat-exchange process in coalcar distry, manely (1) method detr. the hermal cond. of fluid namely (1) method of coastal cylic iers, and (5) method of fine fluidified in the state o

EPSHTEYN, A.S., kandidat tekhnicheskikh nauk; ROKHLIN, I, redaktor; 10AKINIS, A., tekhnicheskiy redaktor.

[Experience in increasing the productivity of mineral wool factories; a scientific report] Opyt povysheniia proisvoditel'nosti savodov mineral'noi vaty; nauchnoe soobshchenie. Kiev.
Isd-vo Akademii arkhitektury Ukrainskoi SSR, 1954. 26 p.
(MLRA 8:11)



EPSHTEYE, A.S., insh.

Efficient circuit of gas-turbine supercharging for the 9M100 two-cycle engine of 3000 hp. Energomashinostroenie 4 no.11 31-34 H *58. (MIRA 11:11)

(Diesel engines)

AUTHOR:

Epshteyn, A. S.

131-23-5-10/16

TITLE:

Device for Grinding Light Foam Bricks (Prisposobleniye dlya shlifovki penolegkovesa)

Ogneupory, 1958, Vol. 23, Nr 5, pp. 233-235 (USSR)

ABSTRACT:

PERIODICAL:

In the Podol'sk works for refractory products the light bricks are ground on grinding disks. The unfinished pieces of bricks suffer extensive deviations from the dimensions during the burning and also distort. By grinding all of the 6 surfaces they are adapted to the GOST standards. In order to obtain the required dimensions of the bricks metal gauges are used. As these bricks are manufactured in 4 different sizes and as it is worked with 2 grinding disks, 8 gauges are necessary which during grinding are laid on the bricks. Then it is ground until the grinding disk touches the gauge. On each grinding disk per course 800-1000 bricks are ground, which led to a consumption of 2-3 gauges per course. An improvement of the gauges ground down was obtained by welding. In such operation method deviations from the specified brick dimensions occurred. The locksmith and installer V. S. Ryazantsev suggested a device which permits to grand exactly to gauge without a gauge.

Card 1/2

Device for Grinding Light Foam Bricks

131-23-5-10/16

The device is shown in the figure; it is fastened to the table of the grinding machine. It permits to grind bricks of all of the 4 sizes. The device has a movable sleigh which accepts the bricks and permits to grind them without gauge to the wanted size by means of corresponding adjustment of the existing control devices. There is 1 figure.

ASSOCIATION:

Podol'skiy zavod ogneupornykh izdeliy (Podol'sk Works of

Refractory Products)

AVAILABLE:

Library of Congress

 Refractory materials - Production 2. Grinding wheels -Applications

Card 2/2

EPSHTEYE, A.S., kand. tekhn. nauk

Heat conductivity of lightweight concretes. Stroi.prom. 36 no.4:25-27 Ap '58. (MIRA 11:4)

1. Stalinskoye otdeleniye Zapadno-Sibirskogo filial Akademii stroitelistva i arkhitektury.

(Lightweight concrete) (Hent-Conduction)

KALNINA, N.A., kand. tekhn.nauk; EPSHTEYN, A.S., kand. tekhn. nauk.

Meisture capacity of lightweight percus concretes made of cinders from heat and electric power plants. Prom. stroi. 36 no.12:23-25 D 158. (MIRA 12:1)

1.Stalinskeye etdeleniye Zapadne-Sibirskege filiala Akademii stroitel'skva i arkhitektury SSSR. (Cinder blecks--Testing)

5/196/61/000/011/015/042 E194/E155

AUTHOR:

Epshteyn, A.S.

TITLE:

An instrument for determining thermal conductivity coefficients for light concretes and other

structural materials

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.11, 1961, 51, abstract 11G 331. (Tr. Zap.-Sib. fil. Akad. str-va i arkhitekt. SSSR, no.3, 1960,

42-50)

The coefficient of thermal conductivity of materials used for external cladding of heated buildings depends not only on the density (weight per unit volume) but also on the type of raw material, structure and humidity. For practical purposes the limiting sorption value of humidity may be assumed. assumption that the thermal conductivity coefficient of concrete made from amorphous materials is low needs correction. Structural laboratories usually do not concern themselves with determination of coefficients of thermal conductivity because the methods are complicated. The samples must be carefully Card 1/1 2

CIA-RDP86-00513R000412120 APPROVED FOR RELEASE: Thursday, July 27, 2000

An instrument for determining ...

S/196/61/000/011/015/042 E194/E155

treated under steady-state conditions and a test lasts for more than one shift. It is also laborious to work under non-steady-state conditions. An instrument is recommended for determining the coefficient of thermal conductivity under steady-state conditions; it is based on the principle that the temperature at the surface of the specimen remains constant. The instrument consists of a heater and two coolers (see figure).

[Abstractor's note: Complete translation.]

Card 2/12

EPSHTEYN, A.S., kand.tekhn.nauk

Hature of pore formation in fused blast-furnace elags in making slag pumice. Stroi. mat. 6 no.10:34-35 0 160. (MIRA 13:10) (Slag)

s/262/62/000/020/007/009 E194/E135

Epshteyn, A.S. AUTHOR:

Work of the 'Fairbanks-Morse' firm on gas turbine super-charging of two-stroke opposed-piston engines TITLE

PERIODICAL: Referativnyy zhurnal, Silovyye ustanovki, no. 20, 1962, 41, abstract 42.20.233. (Tr. Khar'kovsk. politekhn.

in-t, Khar'kovsk. z-d transp. mashinostr., v.32,

1961, 205-220)

The work of the Fairbanks-Morse Company on gas turbine super-charging of two-stroke opposed-piston diesel engines is reviewed on the basis of foreign (non-Soviet) sources. The company started work on this type of engine in 1933. Until 1940 engine type 38D81/8 (S/D = 254/206.2 mm) was made for marine and land installations, and for the last eighteen years these engines have also been made for locomotives. Work on gas turbine super-charging was commenced in 1945 and was conducted in two stages: from 1945-1952, and from 1953-1958. As a result of the work the output per cylinder of the engine was increased from

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Card 1/2

31

Work of the 'Fairbanks-Mprse' firm... \$/262/62/000/020/007/009

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200 to 340 h.p. and the effective fuel consumption reduced from 168 to 153 grams per h.p. hour. The life and reliability of the engine were checked by prolonged tests of a total duration of 20 000 hours. A detailed presentation is made of the scope and results of the work in these first and second stages; various systems of turbo super-charging which were tested during the second stage of the investigation are considered and analysed, and the results are given of tests and adjustments for the turbo super-charging system that was finally accepted. In conclusion, a brief description is given of the arrangement of a 12-cylinder diesel engine with turbo supercharging and the development prospects of this type of engine.

Abstractor's note: Complete translation.

Card 2/2

ARTIZANOV, Ye.A., inzh.; DORFMAN, Yu.I., inzh.; ZASLAVSKIY, Ye.G., inzh.; KUSHMER, B.I., inzh.; PLUTSHER-SARNO, Yu.N., inzh.; SMOL'YANINOV, A.Ye., inzh.; SPIVAK, Ya.L., inzh.; STRUNGE, B.N., inzh., EPSHTEYN, A.S., inzh.; SAZONOV, A.G., inzh., red.; USENKO, L.A., tekhn. red.

[The TE10 diesel freight locomotive] Gruzovoi teplovoz TE10. Moskva, Transzheldorizdat, 1962. 171 p. (MIRA 15:10) (Diesel locomotives)

EPSHTEYN, A.S., kand. tekhn. nauk; NIGMATULIN, I.N., doktor tekhn. nauk, retsenzent; YEGORKINA, L.I., inzh., red.; DEMKINA, N.F., tekhn. red.

[Variable operating conditions of turbocharged diesel engines]Perememye rezhimy dvigatelei s gazoturbinnym nadduvom. Moskva, Mashgiz, 1962. 206 p. (MIRA 15:11) (Diesel engines) (Superchargers)

ASEYEV, Ye.N.; EPSHTEYN, A.S.; CHERNOMORDIK, B.M., kand. tekhn. nauk, retsenzent; MELEYEV, A.S., inzh., red.; BULATOV, S.I., red.izd-va; UVAROVA, A.F., tekhn. red.

[Design and calculations for free-piston gas generators]Konstruirovanie i raschet bezval'nykh generatorov.gaza. Moskva, Mashgiz, 1962. 354 p. (MIRA 15:12) (Gas producers) (Turbomachines)

EPSHTEYN, A.S., kand. tekhn. nauk

Solution of a problem in foreign countries concerning the variable operation of two-cycle engines used in transportation systems with gas turbine injection. Teplovoz.i sud.dvig. no.3:278-286 62.

(MIRA 16:2)

(Diesel engines)

SOURCE CODJ: UR/0122/66/000/008/0013/0016 ACC 'NR: AP6028717 $(N_c L)$ AUTHOR: Epshteyn, A. S. (Candidate of technical sciences) ORG: none Calculation of transient processes in a supercharged diesel generator TITLE: SOURCE: Vestnik mashinostroyeniya, no. 8, 1966, 13-16 TOPIC TAGS: diesel engine, electric generator, diesel generator, engine performance characteristic/ D100 diesel generator ABSTRACT: A methodology for calculating the transient behavior of a supercharged diesel generator is presented and its use is demonstrated, using the D100 diesel generator as an example. The method is based on calculating a sequence of semistatic situations with the time interval being smaller than the period between successive cylinder firings (at least, during the periods of steep gradients). To perform these calculations it is necessary to know the performance characteristics of the components, i.e., the indicator diagrams of the D100 as a function of initial pressure, the compressor torque requirements of the supercharger as a function of initial pressure (and shaft angle) are presented and used in the calculations. The set of equations which is developed is used to predict the $\omega = f(\tau)$ behavior of the D100 when a 100% step-change in load is applied. The calculated results agree very well with the experimental ones. Orig. art. has: 4 figures and 15 formulas. SUB CODE: 13/ SUBM DATE: none 621-843.6.001.24 UDC: Card 1/1

ACC NR: AM6032613

(4,N)

Monograph

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Strunge, Boris Nikolayevich; Revva, Leonid Dorofeyevich; Raskin, Veniamin Geselevich; Epshteyn, Abram Semenovich

Dloo automated high-power diesel generators (Avtomatizirovannyye dizel'-generatory bol'shoy moshchnosti tipa Dloo) Moscow. Izd-vo "Mashinostroyeniye", 1966.

259 p. illus., biblic. 1800 copies printed.

TOPIC TAGS: diesel engine, marine engineering, generator, electric generator, electric generator unit, automation, automation equipment/Dloo diesel generator

PURPOSE AND COVERAGE: This book is intended for technical and engineering workers engaged in the planning and operation of stationary and shipboard automated diesel generators. The book discusses the principles and methods of automating the control, servicing, emergency-warning signalling, and the protection of high powered, type DlOO stationary and shipboard diesel generators. Technical characteristics are presented, and domestic systems of automation, remote control, emergency-warning signalling, and the protection of diesel generators are described. The peculiarities of automation systems, their electrical diagrams, and the design of separate elements of the devices for monitoring these systems are examined. Recommendations are given for the installation, check-cut, and operation of automated diesel generators. There are 14 references, all Soviet.

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Ch. III. Automatic devices, monitoring devices, and their arrangement in units -- 54
Ch. IV. Design specifications and technical characteristics of diesel generators -- 10
Ch. V. Test stands -- 168
Ch. VI. Testing automated diesel generators -- 105
Ch. VIII. Particulars on the operation of automated diesel generators -- 256
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SUB CODE: 13/
SUBM DATE: 31Mar66/
ORIV. REF: 014/

L 11/152-66 EWP(f)/EPF(n)-2/T-2/ETC(m)-6 WW
ACC NR: AP6002952 AP6002952 CODE: UR/0286/65/000/024/0124/0124

INVENTOR: Strunge, B. N.; Belostotskiy, A. M.; Pesotskiy, V. Yu.; Lubchenko, M. I.; Turchak, Ye. V.; Epshteyn, A. V.

ORG: none

13,4455

TITLE: A device for improving the pickup of a diesel generator with gas turbine supercharging. Class 46, No. 177227 [announced by the Kharkov Plant of Transportational Machine Building im. V. A. Malyshev (Khar'kovskiy zavod transportnogo mashinostroyeniya)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 124

TOPIC TAGS: generator, diesel engine, gas turbine

ABSTRACT: This Author's Certificate introduces a device for improving the pickup of a diesel generator with gas turbine supercharging. The device contains a mechanism for supplying additional air to the diesel cylinders from stand-by tanks. Operational reliability is improved by automatic valves mounted on each cylinder. The supply mechanism is made in the form of a valve with a controller which is operated by pulses from the generator.

Card 1/2

UDC: 621.436.052-443.2

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	ACC NR: AP6002952	•	0
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	1 - automatic valve; 2 - g	gate valve; 3 - controller; 4 - gene	rator.
	SUB CODE: 21/ SUB OV/ Card 2/2	N DATE: Olaug64	

NEFEDOV, N.A., inzh.; OSIDOV, K.A., inzh.; ARSHINOV, V.A., kand. tekhn nauk, dots., retsenzent; EPSHTEYH. A.Yu., inzh., retsenzent; KUNIN, P.A., inzh., red.; SOKOLOVA, T.F., tekhn. red.

[Problems and examples of metal cutting and metal-cutting tools]
Sbornik zadach i primerov po rezaniiu metallov i rezhushchamu
instrumentu. Moskva, Mashgiz, 1962. 224 p. (MRA 15:11)
(Metal cutting) (Metal-cutting tools)

TYULENEV, S.D., inzh.; EPSHTEYN, A.Z., inzh.

The work of anchor fastenings of hot-blast stoves of blast furnaces. Prom. stroi. 40 [i.e. 41] no.6:31-33 Je 163.

1. Dnepropetrovskiy filial Gosudarstvennogo proyektinogo instituta po proyektirovaniyu, issledovaniyu i ispytaniyu stal'nykh konstruktsiy i mostov.

ASIANOV, V., insh.; EPSHTEYN, B., kand.tekhn.nauk

Useful manual for engineers and technicians. Mias.ind.SSSR 31
no.3:58 *60. (Mira 13:9)

(Meat industry)

EFORMING TO ME SHOW THE RESERVE OF THE SHOW THE

Anticorrosion protective device against gas combustion products in gas water heaters. Gor. khoz. Mosk. 30 no.7:11-13 J1 156.

(MLRA 9:10)

1. Moskovskaya okrushnaya inspektsiya Gostekhgornadzora. (Corrosion and anticorrosives) (Water heaters)

MARGORINA, L.M.; BILIBIN, A.F. KRYLOVA, L.V.; EPSHTEYN, B.A.

Biological method for the identification of atypical bacteria of the dysentery group. Zhur. mikrobiol., epid. i immun. 42 no.11:16-19 N '65. (MIRA 18:12)

1. Submitted December 9, 1964.

EPSHTEYN, B.P., kand. tekhn. nauk; GORBATOV, V.M., red.

[All-Union Scientific Research Institute of the Meat Industry] Vsesoiumnyi nauchno-issledovatel'skii institut miasnoi promyshlannosti. Moskva, Glavniiproekt pri Gosplane SSSR, 1959. 83 p. (MIRA 16:4) (Meat industry—Research)

EPSHTEYN, Boris Pavlovich, kand.tekhn.nauk, dotsent; GORBATOV, V.M., dotsent, red.; MEDVEDEV, L.Ya., tekhn.red.

[All-Union Scientific Research Institute of the Meat Industry]
Vsesoiuznyi nauchno-issledovatel'skii institut miasnoi promyshlennosti. Pod obshchei red. V.M. Gorbatova. Izd.2., perer.
i dop. Moskva, Glavnii pri Gosekonomsovete SSSR, 1962. 160 p.
(MIRA 16:6)

(Meat industry) (Research, Industrial)

RPSHTMYN, B.R.

Assortment and quality of staple fabrics. Tekst.prom. 14 no.7: 12-13 J1 *54. (MIRA 7:8)

1. Starshiy towardved TSentrosoyusa SSSR. (Synthetic fabrics)

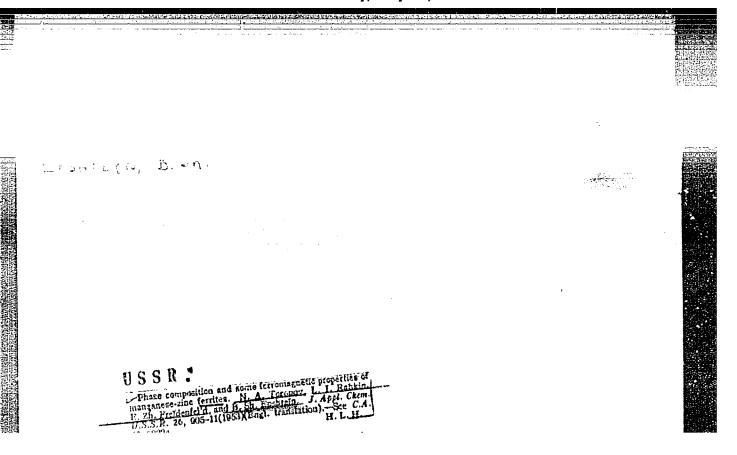
epsteyn, 3. s.

Fogrebov, A. G., and <u>Epstein</u>, <u>B. S.</u> "Reconnaissance Magnetic Surveys of some Regions in the South-Eastern Part of the Western District." Magnituse Anomalii Scolenskoi i Orlovskoi Oblastei, Smolensk, 1938, pp. 123-131.

EFSHTEYN, B. (Engr.) and RABKIN, L. (Cand. Tech. 3c1)

"Normetallic Magnetic Materials (Soviet Ferrites)," Radio, No. 12, pp 14-17, 1952.

so: W-27528, 26 Aug 1953.



EPSHTEYN, B. SH.		11	*		
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5	Phase Composition	and Certain Ferromagnetic	<u> </u>		
<u>(4)</u>	8656 Phase Composition Properties of Manganese-Zim Toronor, L. Pfahkin, E. Zhurra Zhurnal Prikladnol Nilmii, v. 21 Lurnal Prikladnol Nilmii, v. 22	eldente d, and B. Sh. Epshtein.			c.
	2 Describes chemical, microscopios synthesized ferrites. Tables,	. X-ray, and magnetic studies	. •		
	of synthesized ferrites. Tables,	diagrams, grapis.	,		~
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EPSHTEYN, B SH

USSR/Chemical Technology - Chemical Products and Their Application. Silicates. Glass. Ceramics. Binders, I.9

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62301

Author: Rabkin, L. I., Epshteyn, B. Sh.

Institution: None

Title: Some Properties of Nickel-Zinc Ferrites

Original

Periodical: Zh. tekhn. fiziki, 1954, 24, No 9, 1568-1578

Abstract: None

Card 1/1

USSR/Electronics - Pupin coils
Card 1/1 Pub. 133 - 14/16
Autho. : Rabkin, L. I., and Epshteyn, B. Sh.
Title : Small size pupin coils

Periodical : Vest. svyazi 5, page 29, May 1955
Abstract : Principle operational and construction characteristics of small size upin role, designed by the Leningman involves or the lassarch involves in the lassarc



8(5) AUTHORS: 507/105-58-11-14/28

Rabkin, L. I., Candidate of Technical Sciences, Epshteyn, B. Sh.,

Engineer, Koblents, Ya. G., Engineer

TITLE: Ferrites With a Rectangular Hysteresis Loop (Ferrity s

pryamougol'noy petley gisterezisa)

PERIODICAL: Elektrichestvo, 1958, Nr 11, pp 59-68 (USSR)

This is a survey of the method of production, of the principal ABSTRACT:

Ferrites With a Rectangular Hysteresis Loop

SOV/105-58-11-14/29

hysteresis loop are given. Two circuit diagrams for pulse operation developed in the USSR for use with ferrites with a rectangular hysteresis loop are mentioned: 1) a matrix memory circuit (Ref 14), which was developed by the Laboratoriya elektromodelirovaniya AN SSSR (Laboratory of Electric Modeling, AS USSR) in 1955 and which was applied in the computer of the BESM ITM VT. AS USSR. 2) Among step-by-step circuits the choke coil circuit developed by N. V. Korol kov and V. S. Gavrilov, collaborators of the same laboratory is themost recent advance (Ref 30). There are 16 figures, 1 table, and 32 references, 12 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut gorodskoy i sel'skoy telefonnoy svyazi (Scientific Research Institute of Municipal and Rural Telephone Communications)

SUBMITTED: May 26, 1958

Card 2/2

AUTHORS:

Rabkin, L. I., Soskin, S. A. Epshteyn, B. Sh.

507/48-22-10-11/23

TITLE:

Synthesis and Magnetic Properties of Ferrites Exhibiting a Rectangular Hysteresis Loop (Sintez i magnitnyye svoystva ferritov s pryamougol'noy petley gisterezisa)

PEL ODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1958, Vol. 22, Nr 10, pp 1217 - 1224 (USSR)

ABSTRACT:

The magnetic properties of ferrites are influenced not only by their chemical composition but also by the presence of pores and by the shape, size, and position of the impurities contained. These factors depend on the conditions of production, on the initial mixture, and on the synthesis. In the present paper the authors investigated the production of the samples, the method of measuring, the influence of the dispersing medium and of the synthetisation medium, the influence of the duration of cooling, and the influence of the chemical composition upon the magnetic properties of ferrites showing a rectangular hysteresis loop. On the base of these investigations several types of ferrites were developed. The basic parameters of these ferrites are given

Card 1/3

Synthesis and Magnetic Properties of Ferrites Exhibiting a Rectangular Hysteresis Loop

807/48-22-10-11/23

in table 3. In the selection of the prescriptions some compositions worked out under the supervision of Kosarev (Ref 9) were considered. The magnetic properties of ferrites were examined under dynamical conditions by means of measuring the amplitude, frequency, and temperature characteristics. As the amplitude characteristics of the ferrites NN-2 (Fig 6) show, the relative remanent magnetization exhibits a maximum at a certain amplitude of the field strength. The coercive force increases considerably faster with increasing amplitude of the field strength than the maximum magnetization. Considering these properties it is useful to employ ferrites with a rectangular hysteresis loop in the case of comparatively low field strengths if the remanent magnetization has its maximum. For the frequency dependence of B, B/B, and H (Fig 7) of the ferrites PP-24 a weak dependence of the maximum and of the remanent magnetization in the frequency range of from 10 to 100 kilocycles is characteristic. The temperature characteristics of the ferrite PP-24 in the temperature range of -70 to +120 are represented in figure 8. The curves show that B_m , B_r/B_m ,

Card 2/3

Synthesis and Magnetic Properties of Perrites Exhibiting a Rectangular Hysteresis Loop

SOV/48-22-10-11/23

and H decrease with increasing temperature. The curves of the dependence of τ and $1/\tau$ (τ denotes the duration of remagnetization) on the field strength for PP₁-1, PP₂-5, and PP₂-24 are represented in figure 9. It can be seen that the quantity $1/\tau$ increases linearly with increasing strength of the magnetic field. The ferrites PP₂-1 and PP₂-5 which distinguish themselves from PP₂-24 by a higher coercive force, exhibit a longer duration of remagnetization. There are 9 figures, 3 tables, and 9 references, 3 of which are Soviet.

ASSOCIATION:

Nauchno-issledovatel'skiy institut telefonnoy svyazi (Scientific Research Institute of Telephone Communications)

Card 3/3

RUBANSNKO, Mikhail Rafailovich; EPSHTEYN, B.S., red.; KUBNEVA, M.M., tekhn.red.

[Materials for use in vacuum devices intended for use in a tropical climate] Materialy, primeniaemye dlia elektro-vakuumnykh priborov, prednasnachennykh dlia raboty v uslo-viiakh tropicheskogo klimatap Leningrad, Leningradom nauchno-tekhn.propagandy, 1959. 17 p. (MIRA 13:2) (Electron tubes)

SHERESHEVSKIY, Aron Markovich; MPSHTEYN, B.S., insh., red.; KUBNEVA, M.N., tekhn.red.

[Soviet mess spectrometers] Otechestvennye mass-spektrometry; stenogramma lektsii. Leningrad, Leningradom nauchno-tekhn. propagandy, 1959. 29 p. (MIRA 13:2) (Spectrometer)

HEKRICH, Khaim Abramovich; EPSHTEYN, B.S., insh., red.; SHILLING, V.A., isd.red.; GVIRTS, V.L., tekhn.red.

[New AFD-type shock absorber] Novyi pribornyi amortisator tipa AFD. Leningrad, 1960. 14 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom, no.55. Seriia: Pribory i elementy avtomatiki, vyp.10)

(MIRA 14:1)

(Shock absorbers)

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RUSETSKIY, Boris Leont'yevich; SHAL'NOV, Aleksey Ivanovich; EPSHTEYN, B.S., inzh., red.; SHILLING, V.A., red.izd-va; GVIRTS, V.L., tekim. red.

[Mechanized continuous line for mamufacturing C-type band cores] Mekhanizirovannaia potochnaia liniia izgotovleniia lentochnykh S-obraznykh serdechnikov. Leningrad, 1961. 14 p. (Leningradskii Domnauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Pribory i elementy avtomatiki, no.2) (MIRA 14:7) (Cores (Electricity))

GOBERMAN, Tat'yana Nikolayevna; EPSHTEIN, B.S., inzh., red.; FREGER, D.P., red. izd-va; GVIRIS, V.L., tekhn. red.

[Using automatic photoelectric devices at the Izhora Plant] Primenenie fotoelektricheskoi avtomatiki na Izhorskom zavode. Leningrad, 1960. 14 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Pribory i elementy avtomatiki, no.14)

(HIRA 14:8)

(Kolpino-Mashinery industry) (Photoelectric measurements)

ALESKOVSKAYA, Tamara Yefimovna; KOROVKINA, Ida Antoninovna; EPSHTEYN, B.S., inzh., red.; FREGER, D.P., red. izd-va; GVIRTS, V.L., tekhn. red.

[Thermosensitive color for determining the temperature field of surfaces of solids in the temperature range from 300° to 1, 000 C] Termokraska dlia opredeleniia temperaturnogo polia poverkhnosti tverdykh tel v intervale temperatur 300-1000° C. Leningrad, 1961. 14 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmer peredovym opytom. Seriia: Pribory i elementy avtomatiki, no.5) (MIRA 14:7)

(Temperature-Measurement)

GENKIN, Boris Abramovich; EPSHTEYN, B.S., inzh., red.; FREGER, D.P. / 166.
izd-va; BELOGUROVA, I.A., tekhn. red.

[The APM-2 automatic program control unit] Avtomaticheskii programmnyi mekhanizm APM-2. Leningrad, 1961. 21 p. (Leningradskii Dom
nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Pribory i elementy avtomatiki, no.4)
[MIRA 14:7)
[Celectronic control]

USIKOV, Sergey Vasilyevich; EPSHTEYN, B.S., inzh., red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Contactless high-frequency methods for measuring the conductivity and dielectric permeability of solutions] Vysokochastotnye metody immerenia provodimosti i dielektricheskoi pronitamenosti rastvorov beskontaktnym sposobom. Leningrad, 1961. 23 p. (Leningradskii Dom nauchnotekhnicheskoi propagandy. Obmen peredovym opytom. Seria: Pribory i elementy avtomatiki, no.8)

(MIRA 14:7)

(Solution (Chemistry)—Electric properties)

(Chemical engineering—Electronic equipment)

Subsurface depots. Na stroi. Ros. no.5:12-13 My '61. (MIRA 14:7)

(Grain) (Grain elevators)

RABKIN, Lev Izrailevich; SOSKIN, Semen Aronovich; EPSHTEYN, Boris
Shayevich; KAZARNOVSKIY, D.M., red.; SOBOLEVA, Ye.M., tekhn.
red.

[Technology of ferrites] Tekhnologiia ferritov. Moskva, Gosenergoizdat, 1962. 358 p. (MIRA 15:9) (Ferrates)

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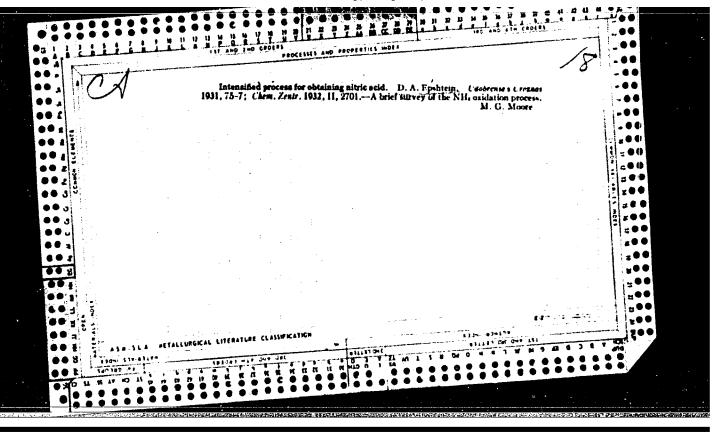
Dissertation: "Analysis of Typical Storing Elevators in the USSR." Mc scow Technological Inst of the Food Industry, 15 Oct 47.

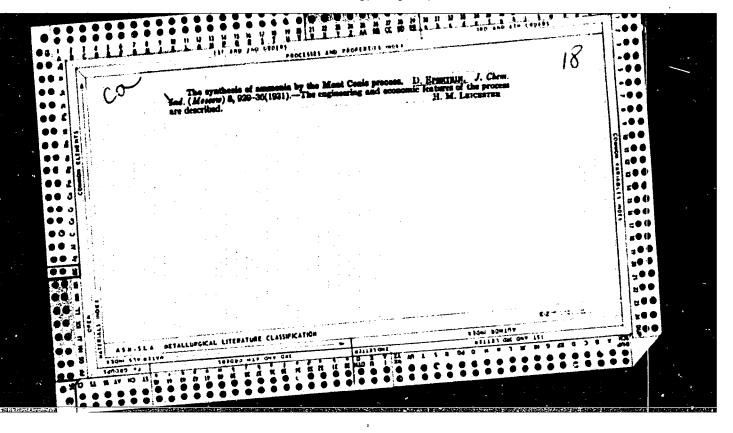
SO: Vechernyaya Moskva, Oct, 1947 (Project #17836)

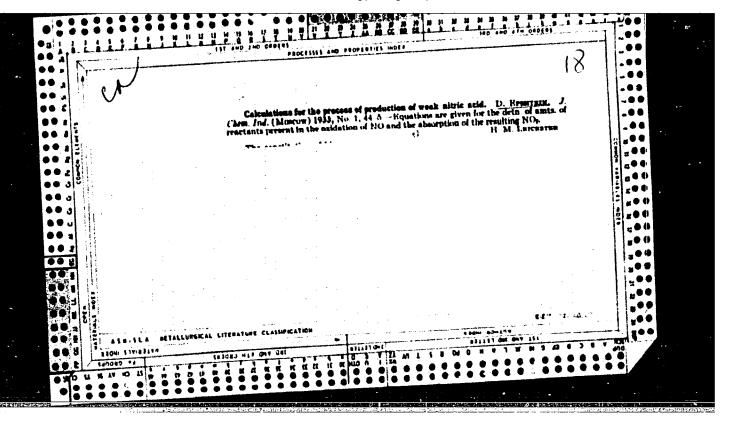
KUZNETSOW, S.M., kand.tekhn.nauk; EPSHTEYN, B.V., kand.tekhn.nauk; KULAKOVSKIY, A.B., inzh.; KUROCHKIN, A.M., inzh.

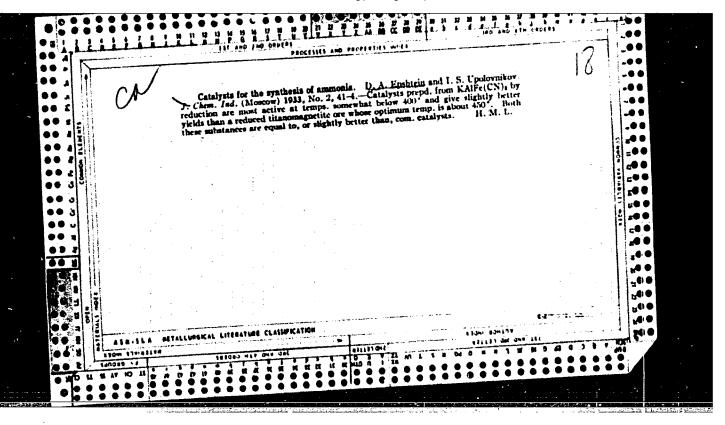
Precast reinforced concrete granaries. Bet.i ahel.-bet.
no.8:337-345 Ag '61. (MIRA 14:8)
(Granaries) (Precast concrete construction)

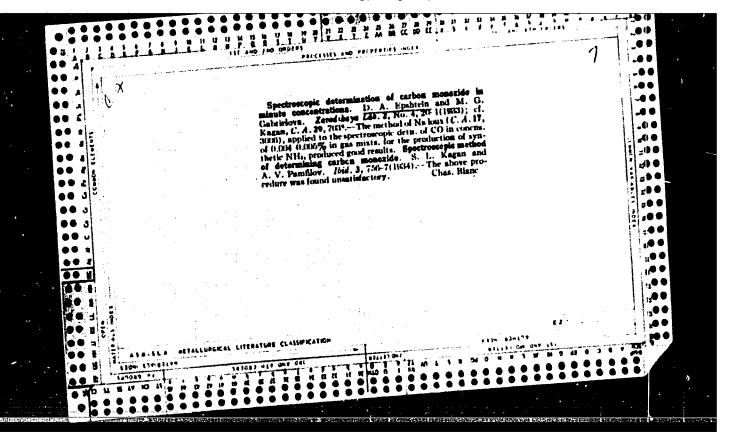
POLYAKOV, Kirill Petrovich; Prinimal uchastiye EPSHTEYN, B.Yu.; KHARINSKIY, A.L., retsenzent; ZHUKOV, V.A., red.; SOBOLEVA, Ye.M., tekhn. red.

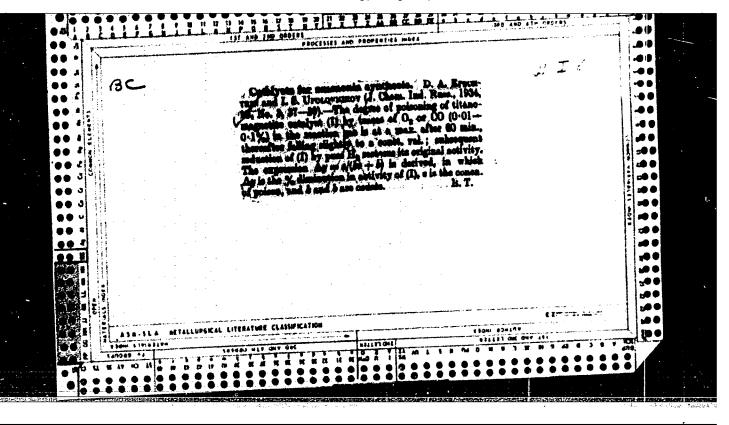


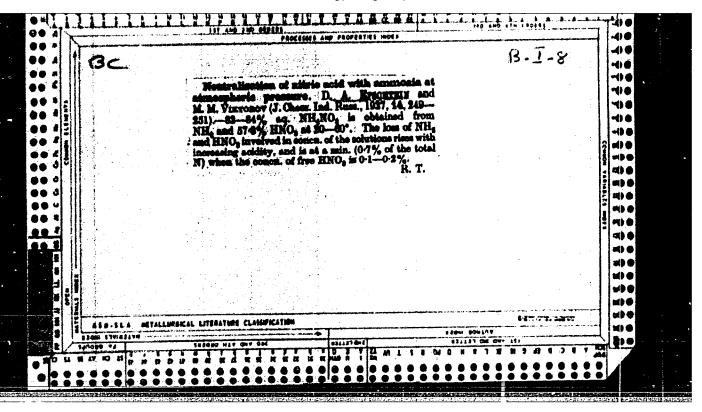


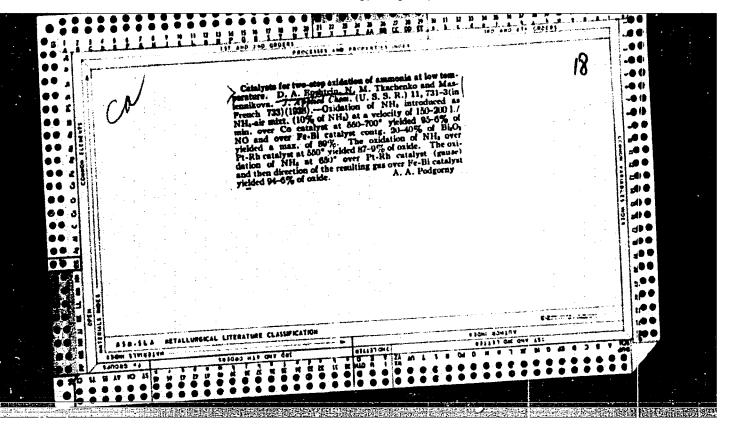


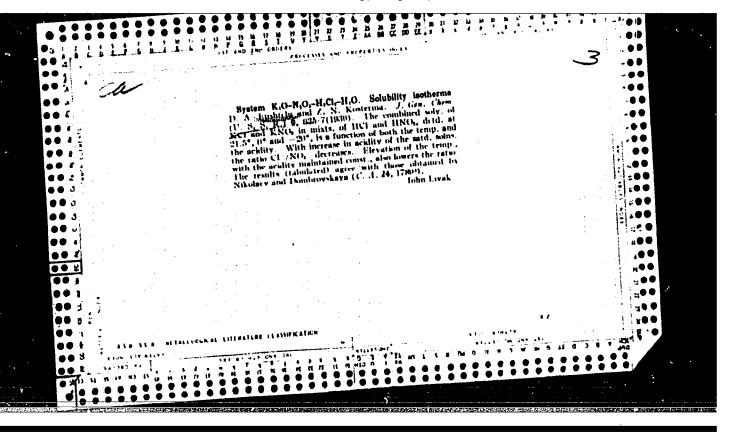


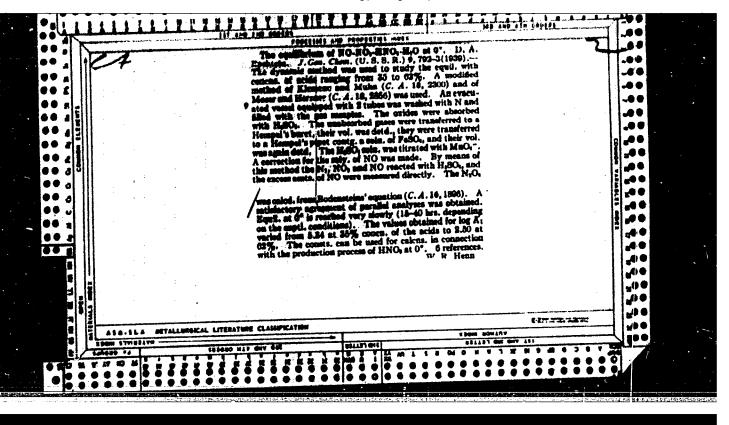


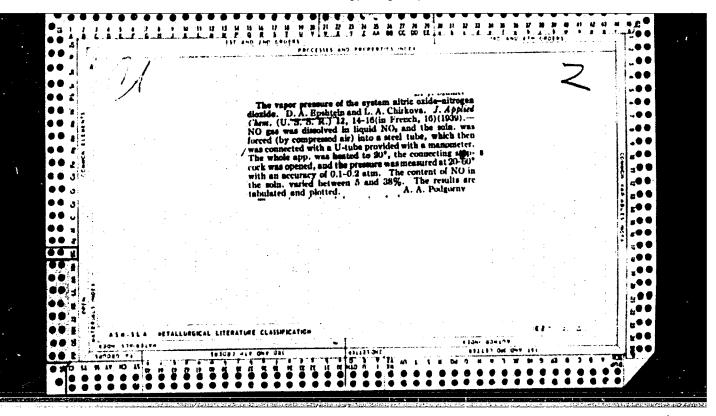












EPSHTEIN, D. A.

Chasification of chemical reactions in connection with the determination of optimum conditions of technological processes. 1. D. A. Epshitin, J. Applied Chem. (U.S.S.R.) 19, 1125-42(1010) (in Russian). The conditions of optimum yield R and intensity I (proportional to the mean velocity of the reaction) of a piven process can be detd, on general principles by a classification based on the position of the system with regard to equif, the no. of simultaneous or consecutive reactions, the no. of phases, and the presence or absence of a catalyst. By the 1st two criteria, which are fundamental, reactions can be termed unidirectional or bidirectional, simple or composite, shifted or nonshifted; this gives 6 basic types, 3 simple, and 3 composite; each group is subdivided into unidirectional (I), bidirectional shifted (II), and bidirectional nonshifted reactions (III). Among the simple types, an example of I is the production of dit. IINO2 by evidation of NO to NO2 and absorption in water; class II is illustrated by CO1 + C = 12CO, CO + 11,O = CO2 + 11, or 2SO1 + O1 = 2SO1, reactions in which the equil, can be shifted, depending on temp, and pressure. Haber's synthesis of NII is given as an example of III, characterized by recycling as the specific method of intensification. Specific laws governing the detu, of optimum R and I are formulated and the dependence of R on time and temp, is represented for each type. The criteria of homogeneity or heterogeneity and of absence or presence of catalysts introduce only minor changes and do not affect the classification as a whole.

EPSHTEYN, D. A.

PA 58T15

Chemistry - Chlorides Chemistry - Nitrates

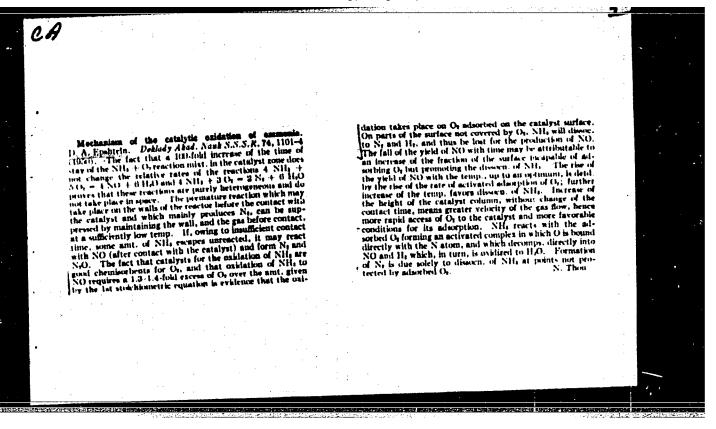
Apr 1947

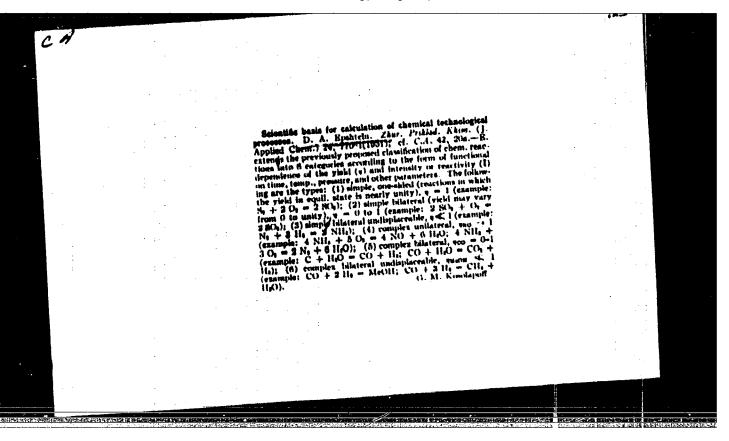
"Topochemical Conversion of Sodium Chloride and Potassium Chlorides Into Nitrates," Prof D. A. Epshteyn, Dr Tech Sci; L. A. Chirkova, Candidate Chem Sci; I. N. Papulova, 5 pp

"Khim Prom" No 4

Describes results of studies on speed of interrelation of gaseous form and liquid form of nitrogen dicaide with solid chlorides, and studies which have been conducted on model apparatus. Data obtained for kinetic similarities, operated by chain reactions. No study of qualitative characteristics

58m5





ECHTEYN, D.A.

USSR/Chemistry - Gas Synthesis

Aug 51

PA 190T32

"Method for Calculation of the Material Balance of a Circulation Process," D. A. Epshteyn

"Zhur Prik Khim" Vol XXIV, No 8, pp 880, 881

Using synthesis of NH3 from H2 and N2 as model, describes basic method for calcu of material balances under recirculation for simple 2-direction reactions whose equil are not displaced and which are encountered in industry. Expressions are derived from which balances in all units of app in cycle and compn of all gas currents can be calcd.

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EPSHTEYN, D. A.		
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Scientific principles of chemical menufacture. Moskva, Izd-vo Akademii pedagog. nauk RSFSR, 1952- (Fedagogicheskaia biblioteka uchitelia) (54-18419)
TF155.E6

YEPSHTEYN, D.A.

Nitric Acid

Synthesis of ammonia and nitric acid. Khim. v shkole No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress. November 1952. UNCLASSIFIED.

EPSHTEYN, D. A.				
EPSHILLIN, D. A.			0.30000	
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EPSHTEIN, D.A.

Uchebnye modeli zavodskikh khimicheskikh ustanovok; posobie dlia sred. shkoly (Models for the study of chemical plant equipment; manual for secondary schools). Moskva, Uchpedgiz, 1953. 102 p. (Akad. ped. nauk RSFSR. In-t metodov obuchenija)

SO: Monthly List of Russian Accessions, Vol 7, No 9, Dec 1954

EPUSITEN, D.A. AID 169 - I TREASURE ISLAND BIBLIOGRAPHIC REPORT PHASE I Call No.: AF582723 .⇒ 300K Author: VOLUPACVITH, C.T., YEGGROV, A.P., & EPSHVEYN, Full Title: GENERAL CHEMICAL FECHNOLOGY (VOL. I) Transliterated Title: Obshchaya khimicheskaya tekhnologiya Publishing Data Originating Agency: None Publishing House: State Scientific-Technical Publishing House of Chamical Literature (GCSNHIMIZDAL) No. of copies: 25,000 No. pp.: 632 Date: 1953 bditorial Staff Tach. Ed.: Hone Editor: Luchinskiy, G.P. Appraiser: Home Editor-in-Chief: Vol'fkovich, S.I., Acad. Others: Gratitude is expressed to several Soviet scientists for their valuable comments. Three additional authors are montioned: Z.A. Mogovin, fu. P. Rulenko, I.V. Shmanenkov. Text Jata The book consists of two volumes. Volume I is devoted to general Coverage: problems of chemical technology (such as raw materials, anargetics technology of water and fuel), to the samufacture of grees, acids, alkalies, salts, fertilizers, and to el curculamical processes, etc.

EPSHIEYN, D. A.

Some illustrations of machinery, tables, and diagrams are included. The book might be of interest because it mentions names of many Soviet scientists and their contributions to the development of various chemical industries. Desposits of some raw materials in the U.S.S.R. and goals set by the Five-Year Flan (1951-1955) for some industries are cited.

Purposes:

Approved by the Ministry of Higher Education of the U.S.J.A. as a textbook for departments and colleges of chemical technology.

Facilities: Names of many Soviet chemists are mentioned.
No. of dussian and Slavic deferences: 145 (1922-1952)

Available: A.I.D., Library of Congress.

EPSHTEYN, D. A.

Sep 53

USSE/Chemistry - Chemical Technology

"Review of S. Il Vol'fkovich, A. P. Yegorov and D. A. Epshteyn's book 'General Chemical Technology (Obshchaya Khimicheskaya Tekhnologiya) Vol I, 632 pp, Goskhimizdet, Moscow, 1953. (P. P. Budnikov, reviewer)

Usp Khim, Vol 22, No 9, pp 1165-1168

In this book material is organized on the basis of similarity of technol processes and partly on the basis of common raw material source. The section on thermal treatment of fuels discuss ses pyrolysis of solid fuel, conversion of petroleum and natural gas, and gasification of solid fuel, including subterranean gasification. Development of the chem ind during prewar 5-yr plans and the leading USSR chem schools are discussed. The section on basic inorganic synthesis describes new processes for production of conc HNO₂ by direct synthesis and combined production of HNO₂ and H₂SO₁. While the book has some shortcomings, it is a valuable textbook for higher educational institutions.

268T17

EPSHTEYN, D.A. [author]; ARSEN'YEVA, L.Z. [reviewer].

"Scientific bases of chemical industry." D.A. Epshtein. Reviewed by L.Z. Arsen'eva. Zhur.prikl.khim. 26 no.9:1002-1003 S '53. (MLRA 6:10) (Chemical industries) (Epshtein, D.A.)

VOL'FKOVICH, S.I.; YEGOROV, A.N.; EPSHTEYN, D.A. [authors]; YAKOVKIN, G.A. [reviewer].

"General chemical technology." S.I. Vol'fkovich, A.N. Egorov, D.A. Epshtein.
Reviewed by G.A. IAkovkin. Zhur. prikl. khim. 26 no. 10:1103-1104 0 '53.
(MIRA 6:10)

(Chemistry, Technical) (Vol'fkovich, Semen Isaakovich)
(Egorov, A.H.) (Epstein, D.A.)

EPSHTEYN, D. A.

ZYYAGINTSEV, O.Ye. [reviewer]; VOL'FKOVICH, S.I.; YEGOROV, A.P.; EFSHTEYE, D.A.

[authors].

"General chemical technology." S.I.Vol'fkovich, A.P.Egorov, D.A.Epshtein,
Reviewed by O.E.Zviagintsev. Zhur.prikl.khim. 26 no.12:1323-1324 D '53.

(MIRA 6:11)

(Chemistry, Technical) (Vol'fkovich, Semen Isaakovich) (Egorov, A.P.)

(Epshtein, D.A.)

EPSHTEYN, D. A.

The Committee on Stalin Prises (of the Council of Ministers USSR) in the fields of science and inventions amounces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Name

Title of Work

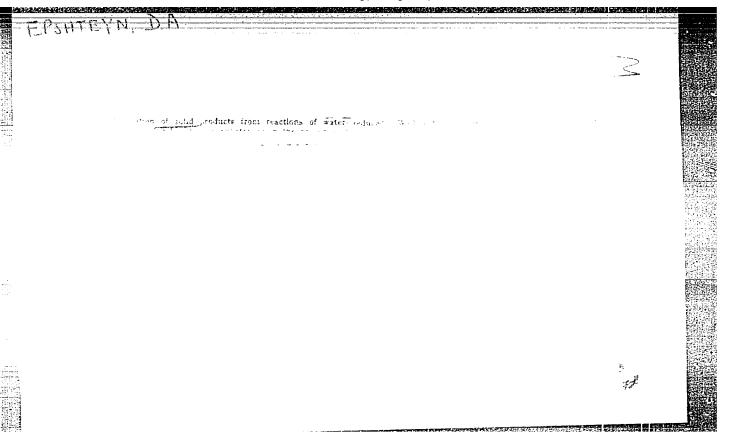
Hominated by

Vol'fkovich, S. I. Yegorov, A. P. Epshteyn, D. A.

"General Chemical Technology" (textbook Vol I) of Teaching, Academy of

Scientific Research Institute Pedagogical Sciences RSFSR

80: W-30604, 7 July 1954



EPSHTEIN, D.A., professor.

Chemistry problems on industrial processes. Naim. v shkele
10 no.6:28-36 N-D '55. (MLRA 9:1)
(Chemistry--Problems, exercises, etc.)

EPSHTEYH, D.A., professor

Fixed nitrogen. Priroda 44 no.10:41-47 0'55. (MIRA 8:12) (Mitrogen--Fixation)

MPSHTMYN, D.A., prof.; IZMAIL'SKIY, V.A., prof.; BARANNIK, V.P., dots.; BALOTSVETOV, A.V., dots.; SMIRNOVA, M.I., tekhn. red.

[Programs of pedagogical institutes; elements of chemical technology for natural science-faculties of pedagogical institutes]
Programmy pedagogicheskikh institutov: osnovy khimicheskoi tekhnologii dlia fakulitetov estestvosnaniia pedagogicheskikh instinologii dlia fakulitetov estestvosnanii dlia fakulitetov

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i srednikh pedagogicheskikh uchebnykh zavedeniy.

(Chemistry, Technical-Study and teaching)

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